

## Process for purifying diaryl carbonates

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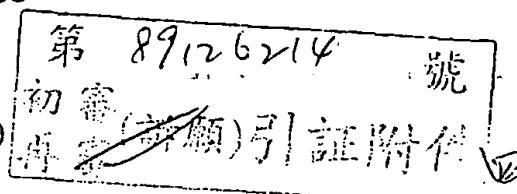
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JP7138208



### Abstract

Illustrated by the purification of diphenyl carbonate (DPC), diaryl carbonates are purified and freed of contaminants such as inorganic and organic chlorides, metal ions, iron components and color bodies. The process is a two-stage procedure starting with a water wash of the molten carbonate followed by distillation. In a preferred embodiment, crude DPC is charged to the wash tank and is washed in the molten state three times. Fresh steam condensate is used for each wash which consists of a period of agitation followed by decantation then water removal. After the third wash, the molten DPC is transferred to a still for distillation. The rag layer which is formed at the water/DPC interface during washing is purged and not allowed to pass through to the still. A flash distillation is carried out under constant vacuum. Three overhead cuts are taken - lights, intermediate and product DPC depending on the temperature of the overhead vapor.

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經世濟物者，知繩墨而棄規矩，利機巧而棄矩規，則無以成其事。

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中華民國六十一年十一月廿一號  
證書號：(K) 0105244  
印製：大英報業有限公司

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言：此謂明矣。二

名稱：奇異器公司

國美：林冲

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五、申請日期：九十年八月二日  
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八、審定內容：

主文：本案應不予以專利。

依據：專利法第二十條第二項。

理由：

(一) 本案所請為「連續製造芳基碳酸酯類之方法及裝置」係整合反應蒸餾塔及使用分餾塔以成雙芳基碳酸酯之製造方法。

(二) 經查連續式並於脂交換（轉酯化）觸媒存在下，將雙烷基、碳酸酯與芳香醇（如酚）反應以製造雙芳基碳酸酯的方法已揭示於EP 781760、JP 62277345A及JP 61172852A（如附件一至三）等，至於靠分餾或蒸餾以提純雙芳基碳酸酯的方法也揭示於US 5498319、JP 11012230A、EP 722931（如附件四至六）等，故本案所請係運用上述申請前既有之技術或知識，而為熟習該項技術者所能輕易完成，不具進步性，難符專利。

據上論結，本案不符法定專利要件，爰依專利法第二十條第二項，審定如主文。

局長 陳明邦

依照分層負責規定授權單位主管決行

第二頁

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整 (事利說明書及圖式合計在五十頁以上者，每五十頁加收新台幣五百元，其不足五十頁者以  
如不服本審定，得於文到之次日以內，請具再審書一式二份及複審合費陸仟元

五十頁計)。向本公司申請再審者。